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Appl. No. 10/612,830  
Amdt. dated January 30, 2004  
Preliminary Amendment

PATENT

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

Claim 1 (original): A device for measuring the flow velocity and/or the volumetric throughput of a fluid by means of ultrasound, having at least two ultrasound producing or ultrasound receiving elements (22) arranged on an outside of a wall (14) of a fluid pipeline (12) forming a measurement housing, characterized in that a portion (32) of the wall (14) forms an ultrasound emitting or receiving membrane (30) of an ultrasonic transducer (16), and the wall portion (32) forming the membrane (30) is dimensionally adapted to the ultrasonic transducer (16).

Claim 2 (original): A device according to claim 1, characterized in that the ultrasonic transducer (16) is of a lengthwise oscillating type and a waveguide (26) is arranged between the ultrasound producing or receiving element (22) and the membrane (30).

Claim 3 (original): A device according to claim 2, characterized in that a contact region (44) between the waveguide (26) and the wall portion (32) has a form-fitting configuration.

Claim 4 (original): A device according to claim 3, characterized in that the contact region (44) between the waveguide (16) and the wall (32) has a spherical shape.

Claim 5 (currently amended): A device according to ~~one of the preceding claims~~ claim 1, characterized in that the wall portion (32) is thinner than the remainder of the wall (14).

Claim 6 (currently amended): A device according to ~~one of the preceding claims~~ claim 1, characterized in that the ultrasonic transducer (16) extends at least partly into the wall (14).

Claim 7 (currently amended): A device according to ~~one of the preceding claims~~  
claim 1, characterized in that a cover (36) covers the ultrasonic transducer (16) extending into the  
wall (14).

Claim 8 (currently amended): A device according to ~~one of the preceding claims~~  
claim 1, characterized by a spring (40) biasing the ultrasonic transducer (16) against the wall (32)  
forming the membrane (30).

Claim 9 (currently amended): A device according to ~~one of the preceding claims~~  
claim 1, characterized in that the spring (40) is propped against the cover (36).

Claim 10 (currently amended): A device according to ~~one of the preceding claims~~  
claim 1, characterized in that the ultrasonic transducer is arranged so that a measurement  
pathway lies outside a diameter of the pipe.

Dr 6/30/03  
IDS 2/2/04  
PE. 2/2/04